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12-1-1968

## WSU Research News, December 1968

Office of Research Development, Wright State University

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# WRIGHT STATE UNIVERSITY

## RESEARCH NEWS

### Office of Research Development

December 1968  
Vol. I, No. 6

#### NEW PROJECTS, CONTINUATIONS, RENEWALS

Research on Mechanisms of Thermo-oxidative Degradation of New High Temperature Polymers, Dr. R. T. Conley, Chemistry; Project 105, Extension to September 30, 1969; \$25, 000; Materials Laboratory, Air Force Systems Command.

Objectives: (1) to establish the mechanisms by which the initial stages of thermal and thermo-oxidative degradation proceed and, (2) to determine the kinetic parameters and product distributions from the initial degradation reactions through the use of thoroughly characterized polymer samples, synthetic models of both the polymer system and degraded polymer, isotopic labels at appropriate reaction sites and utilizing both solid phase monitoring (UV, IR, and NMR) and gaseous product analysis techniques.

Gas Solubilities in Selected Solvents and Solutions. Dr. Rubin Battino, Chemistry; Project 120. Continuation to August 31, 1969, \$21, 327; Department of Health, Education, and Welfare, National Institute of General Medical Sciences.

The determination of solubility of gases in selected solvents and solutions is an excellent probe for delving into the physical and chemical nature of solvents and solutions.

New Measurements and Analysis in the PbII Spectrum. Dr. David R. Wood, Physics; Project 121, New to October 31, 1969, \$2, 000. Research Corporation.

The theory of configuration interactions and energy level structure for complex spectra involve many approximations and need more experimental substantiation. It is proposed to use measurements of the PbII spectra to add to knowledge of atomic level structures and configuration interactions.

**Science and the National Purpose—A guide to trends furnished by the Science Policy Research Division, Legislative Reference Service, Library of Congress**

**1. Aeronautical R&D**

Supersonic transport development. The Government will fund 90% of its development costs of about \$2 billion, which promise to balloon. Chief incentive seems to be the French-British Concorde whose shippages and cost increases are casting doubt over whether anyone really needs to fly so fast.

**2. Agricultural R&D**

Redundant federal laboratories. The Agricultural Department in 1964 recommended closing 20 and eliminating lines of research in 34 locations. Congress agreed to close down four. Broadened grant authority to department for basic and applied research. Cotton research.

**3. Applied research and the National Science Foundation**

Something to watch as the lines between pure and applied research continue to blur.

**4. Economic impacts of science and technology**

R&D impact on regional economics. This issue sweeps across questions over geographical distribution of R&D funds, developing the resources of different regions, and assembling principles to determine the technical input needed by an Appalachia or a developing foreign country. This is a key issue for the 1970's and 1980's.

**5. Energy supply and use**

A serious concern in the Government, not because of any immediate shortages of fuel but over improved approaches to nuclear reactor technology, substitutes for oil and natural gas (such as coal and oil shale), abatement of pollution from fossil fuels. An interdepartmental report pointed to these deficiencies: shortage of R&D talent, poor communication and data exchange (there is no overall energy society), no benefits from space and defense R&D and no national energy policy.

**6. Health sciences**

Improved life for older Americans.  
Handicapped children—their intellectual, emotional, social, and physical needs.  
Health research facilities.  
Heart disease, cancer, and stroke. Programs for cooperation between medical schools, clinical research institutions, and hospitals to speed application of advances.  
Medical library research.  
Drug safety. Immense interest and controversy, all aspects.  
Occupational health.

**7. Marine sciences and ocean resources**

There is probably no program in the Federal Government more interlaced with confusion and mythology than oceanography. Events await the report of the National Commission on Marine Science, Engineering, and Resources. It is to recommend a coordinated national program among the agencies with oceanic interests. Currently the Navy is the lead agency, with the Coast Guard moving up fast, the Geological Survey looking for recognition, the Bureau of Mines cautious over the mineral potential, the Bureau of Commercial Fisheries studying ocean biology, the Environmental Science Services Administration probing solid, liquid, atmospheric interrelationships and finding someone or other is doing it, too, and the National Science Foundation hoping for the best with its Sea Grant Program to educate future marine scientists and engineers.

**8. Natural resources, or conservation.**

Watch developments here carefully, because this area embraces the environment, whose quality is the overriding concern of the U.S. Government. There is a craving for understanding interrelationships—a craving for fundamental research on how changes in the landscape or in the chemistry of water and atmosphere affect the biosphere. Here is where all the sciences come together and where the emphasis will be in coming years.

The fundamental problem is creating the mechanism for developing the relevant knowledge. Whether a single master department develops

is not clear but several catalytic centers at least seem inevitable—where funds are dispensed for needed research and where data are sifted for relevance to interrelated problems.

**9. Space science and technology**

NASA is busy looking for new missions after Apollo, now approaching its climax and, therefore, abrupt end. Since 1965 NASA's contract personnel (industries, universities, and other) have fallen from 400,000 to about 250,000.

The emphasis, as soothsayers see it now, will be on instrumented missions, communications and observational satellites, and orbiting laboratories (manned and unmanned). Taken together the annual cost of such projects should not approach the \$4 billion now being spent for space activities.

NASA no longer has a goal. Will it be a "service" agency with the hardware technology necessary to support the traditional programs of other agencies? Or will it accumulate missions of its own in, say, oceanography or natural resource surveys?

**10. Traffic safety**

Need for engineering studies, testing facilities, proving grounds R&D; for developing safer highways, vehicle, and people. Funds for states, interstate agencies, and universities.

**11. Transportation**

High-speed ground transportation.

Urban mass transportation.

This issue appears to be an R&D sleeper, but depending on the public pressures it could bloom into a huge public-directed endeavor. If urban highway construction slows, rail developments will take over.

**12. Urban development**

New technology demands in housing and urban development; construction, rehabilitation, and maintenance of housing.

Here the engineer, social scientist, and ecologist will blend their talents.

**13. Water**

Overall improvement of the nation's water supply.

Water resources research.

Water desalination, plus atomic plants that combine saline water conversion with power production.

Science and technology of pollution abatement.

**14. Weather research and modification**

Develop a national program.

Improve services.

Bolster R&D.

Meteorology is another area undergoing scrutiny. The Commerce Department is under pressure to improve observation and prediction, especially from the airlines. The technology of prediction and observation is changing through mathematical modeling and satellites. If any single theme flows through today's thinking it is over making the Weather Bureau's work more directly applicable to each of man's recreational and occupational activities. Focus of modification work today is on basic understanding of processes and on increasing rainfall in arid areas. In forecasting, a global network is being developed.

**15. For future attention:**

Protecting the natural environment.

Providing new sources of energy.

Application of cybernetics.

Strengthening information management.

Transportation innovations.

Diminishing urban congestion.

Inducing industrial R&D.

Enhancing adequate housing.

Improving food production and distribution.

Alleviation of crime.

Upgrading quality of education.

Protecting the national health.

HIGHER EDUCATION  
AMENDMENTS OF 1968

President Johnson signed the 1968 Amendments to extend higher education programs through June 30, 1971. The following programs were included:

- Guide #16 - Community Service and Continuing Education Programs
- Guide #23 - Financial Assistance for the Improvement of Undergraduate Instruction
- Guide #26 - Educational Research Project Support
- Guide #102 - Teacher Corps
- Guide #107 - College Library Resources Program
- Guide #108 - Contracts to Encourage Full Utilization of Educational Talent
- Guide #109 - Federal, State, and Private Programs of Low-Interest Loans to Students in Institutions of Higher Education
- Guide #147 - Training Programs to Relieve Critical Teacher Shortages
- Guide #227 - Library and Information Science Research Program
- Guide #239 - ERIC (Educational Resources Information Centers)
- Guide #264 - Graduate Fellowships and Other Programs for Training Higher Education Personnel

NATIONAL DEFENSE  
EDUCATION ACT  
AMENDMENTS

Amendments to the Act extends the following programs:

- Guide #6 - Financial Assistance for Strengthening Instruction
- Guide #12 - National Defense Graduate Fellowships
- Guide #13 - Guidance and Counseling, and Testing; Identification and Encouragement of Able Students
- Guide #31 - National Defense Foreign Language Fellowships (NDFLL)



NATIONAL DEFENSE  
EDUCATION ACT  
AMENDMENTS  
(Continued)

Guide #40 - Summer Language and Area Program

Guide #230 - Research in Modern Foreign Language Instruction

HIGHER EDUCATION  
FACILITIES ACT  
AMENDMENTS

The following programs were extended:

Guide #34 - Grants for Construction of Graduate Academic Facilities

Guide #36 - Grants for Construction of Undergraduate Academic  
Facilities

Guide #47 - Loans for Construction of Academic Facilities

EDUCATION PROFESSIONS  
DEVELOPMENT ACT

Guide #218 - The program providing grants to improve the quality or increase the quantity of qualified educational personnel in elementary and secondary education (including pre-school, adult, and vocational education), or postsecondary vocational education. (Deadline April 30, 1969).

NETWORKS FOR  
KNOWLEDGE

A new program was established in 1968, but funds were not appropriated. When funds become available, grants will be made for the purpose of planning, developing, or carrying out arrangements among colleges and universities to share technical, administrative, or educational facilities and resources. Projects may include:

- . joint use of facilities such as classrooms, libraries, laboratories, books, materials, and equipment
- . preparation of inter-institutional catalogs and development of suitable media for electronic or other rapid transmission of materials to provide access to specialized library collections
- . establishment and joint operation of electronic computer networks and programs.

## EDUCATION OF HANDICAPPED

The Bureau of Education for the Handicapped, U. S. Office of Education, has received an appropriation of \$1, 000, 000 to implement a program providing for centers and services for deaf-blind children.

Research, demonstrations, training programs, and dissemination of materials and information dealing with the education of deaf-blind children were authorized by the Elementary and Secondary Education Amendments of 1967 (PL-90-247). Draft guidelines for the program are now available and GUIDE users will receive a folder when final guidelines are approved.

An appropriation of \$1, 000, 000 for fiscal 1969 was made for the creation of experimental programs for the education of handicapped preschool children (the Handicapped Children's Early Education Assistance Act of 1968, PL 90-538). The program, known as "First Chance," is expected to provide for the establishment of from 75 to 100 model projects for the education of the handicapped preschool child. Guidelines are not yet available.

## JANUARY 1 DEADLINES

- Guide #61 - Upward Bound
- Guide #74 - Academic Year Institutes for Secondary School Teachers of Science and Mathematics
- Guide #79 - Institutes and Short Courses for College Science Teachers
- Guide #85 - Undergraduate Instructional Scientific Equipment Program
- Guide # 114 - Predoctoral Fellowships - Public Health Service
- Guide #120 - Postdoctoral and Special Research Fellowships - Public Health Service
- Guide #194 - Postdoctoral Research Associateships (National Research Council)
- Guide #201 - Nuclear Sciences and Engineering Equipment Grants
- Guide #205 - Research, Demonstration, and Development Grants in the Field of Aging
- Guide #209 - Special Fellowships in Health Physics and in Nuclear Science and Engineering

## FEBRUARY 1 DEADLINES

- Guide #116 - Research Project Grants - Public Health Service
- Guide #119 - Training Grants - Public Health Service (including Community and Environmental Health and the National Institutes of Health)

## MARCH 1 DEADLINES

National Endowment for Humanities; March 1 deadlines for programs to begin after June 15.

ENGINEERED ENGLISH - Plagarized with permission from the University of Nebraska Alumnus for the cause of education -

AIRFRAME - Ambiguous terminology. May mean either a frame constructed around a body of air, or a body of air surrounding something.

ALCLAD Entirely clothed

AMORTIZED A term used in amateur boxing; a knockout

BASE METAL A term used by makers of aluminum products in referring to stainless steel, and vice versa

BULKHEAD A derogatory expression, usually applied to persons of questionable intelligence

CATTLE The singular form of the noun kettle



# WRIGHT STATE UNIVERSITY

## RESEARCH NEWS

### Office of Research Development

April 1969  
Vol. I, No. 7

#### NEW PROJECTS, CONTINUATIONS, RENEWALS

A Study of Analog States in Medium Z Isobaric Nuclei,  $^{35}\text{Cl}$  and  $^{35}\text{S}$ , Dr. J. W. Hemsky and Dr. P. J. Wolfe, Physics; New to October 31, 1969; \$4,000; Research Corporation.

The research is intended to lead ultimately to a clearer understanding of the structure of nuclei. It is believed that the study of nuclear excited states will facilitate an understanding of nuclear structure just as atomic spectroscopy paved the way for a rather complete understanding of atomic structure.

Genetics Research, Dr. M. Seiger, Biology; Project No. 123, New to June 30, 1969; \$600, Wright State University Foundation.

Early Development of American Marsupials in vitro, Dr. I. Fritz, Biology; Project No. 124, New to November 30, 1969; \$700; National Science Foundation Institutional Grant.

The Isotopic Composition of Strontium in Naturally Occurring Rocks, Dr. P. Pushkar, Geology; Project No. 125, New to November 30, 1969; \$740; National Science Foundation Institutional Grant.

The Mechanism of the Aminomercuration Reaction, Dr. G. Hess, Chemistry; Project No. 126, New to November 30, 1969; \$750; National Science Foundation Institutional Grant.

Edward Bradford Titchener: His Life and System, Dr. R. B. Evans, Psychology; Project No. 127, New to November 30, 1969; \$450. National Science Foundation Institutional Grant.



Control of Oxygen Polarization on Element Fractionation between Co-existing Phases, Dr. K. Kramer, Geology; Project No. 128, New to November 30, 1969; \$700; National Science Foundation Institutional Grant.

Retraining of Teachers and Administrators - Disadvantaged Youth, Dr. M. H. Apt, Education; Project No. 129, New to June 15, 1969; \$1,000; U. S. Office of Education. This is a grant for planning a program for the retraining of teachers and administrators to meet the needs of the socially, culturally, and economically disadvantaged in the urban school system.

Technical and Business Services Office, Dr. R. E. Hay, Research Development, Project No. 130. Supercedes Project No. 108 to December 31, 1969; \$35,537; Ohio Board of Regents. The Technical and Business Services Office is supervised by Mr. Howard Bales. The Office is a link in the state-wide network which serves the business and industrial community by assisting them in solving their problems.

Mechanism of Photoinduced Carotenoid Synthesis, Dr. Prem Batra, Biology, Project No. 131. Supercedes Project No. 100 to December 31, 1969; \$19,250; Department of Health, Education, and Welfare, National Institute of Arthritis and Metabolic Diseases. Studies are being continued to elucidate the photochemical reaction and a series of light-independent metabolic reactions that result in the synthesis of carotenoids.

Endocrine Control of Metamorphosis in Larval Shrimp, Dr. Jerry H. Hubschman, Biology; Project No. 132, New to December 31, 1970; \$14,600; National Science Foundation. The object of this research is to determine the mechanism of endocrine control of metamorphosis in crustacean larvae.

NEW INSTITUTE  
ESTABLISHED IN  
NIH

The National Institute of Environmental Health Sciences has been established as one of the National Institutes of Health. Formerly a division of NIH, the new institute will be located in Research Triangle Park, North Carolina. Research project grants (Guide Folder #116) awarded by the new institute will examine health hazards in man's environment.

U. S. DEPARTMENT  
OF HOUSING AND  
URBAN DEVELOPMENT

HUD is encouraging minority group members to study urban planning. Under their local public agency training program (Guide Folder #73), HUD is requesting that planning agencies work in conjunction with institutions of higher education to develop work-study programs for minority group graduate and undergraduate students, and for minority group subprofessionals with planning experience but little formal education.

NATIONAL SCIENCE  
FOUNDATION FUNDS

President Nixon restored \$10 million of the \$40 million cut from NSF's budget last year.

NEW ADVISORY PANEL  
ON GRADUATE EDUCATION  
APPOINTED BY  
U. S. OFFICE OF EDUCATION

Peter P. Muirhead, acting U. S. Commissioner of Education, announced recently the appointment of a 20-member Advisory Council on Graduate Education. The panel will be concerned with policies and issues related to the following programs administered by the Bureau of Higher Education of U. S. O. E. : the graduate fellowship program authorized by the National Defense Education Act of 1958; the graduate facilities program authorized by the Higher Education Facilities Act of 1963; training programs for higher education personnel authorized by the Education Professions Development Act of 1967, and the improvement of graduate school and education for the public service programs, both authorized by the Higher Education Amendments of 1968. Following are the members:

Three-year terms: George F. Budd, president of Kansas State College of Pittsburg; Arthur S. Flemming, president of Macalester College; Charles O. Gelatt, member of the board of regents, University of Wisconsin; Charles H. Taylor, Jr., provost, Yale University; Lewis B. Mayhew, professor of education, Stanford University; Renato I. Rosaldo, professor and chairman of the department of Romance languages, University of Arizona.

Two-year terms: Merrimon Cuninggim, president of the Danforth Foundation; William S. Dix, librarian and lecturer in English, Princeton University; William Haber, dean emeritus, College of Literature, Science, and Arts, University of Michigan; Elsie M. Lewis, associate professor and head, de-

partment of history, Howard University; and Joseph L. McCarthy, dean of the graduate school, University of Washington. One-year terms: Barbara Currier, Ph.D. candidate, Columbia University; Margaret B. Fisher, dean of women, University of South Florida; Samuel B. Gould, chancellor, State University of New York; Bill J. Priest, chancellor, Dallas (Texas) County Junior College District; and Rev. Paul C. Reinert, S.J., president of St. Louis University.

Government representatives on the panel are Charles V. Kidd, executive secretary of the Federal Council for Science and Technology, Office of Science and Technology; Louis Levin, executive associate director, National Science Foundation; Thomas Fountaine (alternate) associate director for education, National Science Foundation; and Herbert McArthur, director of education programs, National Endowment for the Humanities.

KARL P. SCHMIDT  
FUND

Modest sums are available to assist persons wishing to study at the Field Museum of Natural History. Grants will be made for study in any of the four fields encompassed by the museum: anthropology (with a natural history orientation), botany, geology (including paleontology), and zoology. An applicant should describe the study proposed in brief terms, state the length of time he wishes to study at the museum and the amount of money needed, and name one reference. Mail applications to chairman, The Karl P. Schmidt Fund, c/o Field Museum of Natural History, Roosevelt Road and Lake Shore Drive, Chicago, Illinois 60605.

AGENCY FOR INTER-  
NATIONAL DEVELOP-  
MENT

AID continues to encourage organizations and individuals to submit unsolicited proposals for research and analysis programs. If the proposal is original, has significant scientific or technical merit, and contributes to AID's research objectives, a contract may be awarded.

Proposals should include at least the following information: full legal name and address of the offeror; brief descriptive title of the proposed research; desired starting date, and duration of the work; research plan, objective and contribution to AID's research program; available facilities, personnel, and equipment; estimated costs, including a breakdown of each cost element and a summary of qualifications and past experience.

Unsolicited proposals may be submitted to the Agency for International Development, Washington, D. C. 20523, to the attention of the appropriate office, as follows:

1. For research and analysis into the fields of education, economics, political, social and institutional development, and planning and administration: Office of Program and Policy Coordination (PPC/TA/PARD).
2. For research and analysis in industry and housing: Office of Private Resources (AA/PRR)
3. Other fields such as agriculture, health, population, nutrition and food from the sea: Office of the War on Hunger (WOH/RIG).
4. For research and analysis concerned with only one geographic region:
  - (a) Bureau for Africa (AFR/CS);
  - (b) Bureau for Near East and South Asia (NESA/TECH);
  - (c) Bureau for East Asia (EA/PROC);
  - (d) Bureau for Vietnam (VN/REIR);
  - (e) Bureau for Latin America (LA/MGT/CTR).
5. For research and analysis into the fields of International Training: Office of International Training (IT/AD)

ANTI-CRIME  
RESEARCH

The Justice Department announced it will issue token grants to initiate what may become a major program of sponsored research and development in the broad areas of crime prevention and control, and the administration of justice

The grants, under the new "Exercise Acorn" are said to offer "scholars, professionals, and practitioners" an opportunity for "socially significant research and development "

However, the scope of the program will be limited somewhat by the funds available. There will not be more than 50 grants in amounts not exceeding \$5,000 "plus reasonable approved overhead." Spending plans for the next fiscal year starting July 1 are expected to be more substantial. The Department said "there are no eligibility requirements for grant applicants, excepting consideration of the merit, imagination, feasibility and relevancy of the proposals." The research should be in the general area of the prevention of crime, improvement of law enforcement services, enhancement of correctional endeavors, and aid to the courts, parole, probation and related agencies.



There is also a separate Federal grant program, with \$15.8 million in funds, for planning improvements in law enforcement and criminal justice. Requests for these funds have come from all 50 states, the District of Columbia, Puerto Rico and the Virgin Islands, and will probably be awarded this month.

For research and development grants, "Exercise Acorn," proposals must be submitted by April 15. Anyone interested call Office of Research Development.

FORD FOUNDATION      In the much publicized Ford Foundation 1968 Annual Report President McGeorge Bundy and Vice President for Research and Education F. Champion Ward were seeking answers to many problems being raised in U. S. colleges. Mr. Bundy asked: "Are courses, lectures, units, sections, and prerequisites at least partly out of date? What can take their places? And how?"

"These questions," Mr. Bundy said, "cannot be answered in the Foundation, but those who are prepared to test them have a continuing claim on our attention."

## INFORMATION FOR FELLOWSHIP APPLICANTS AND INSTITUTIONS

PROGRAMS	Program Announcement Dates <sup>1</sup>	Application Closing Dates	Award Announcement Dates
<b>FELLOWSHIPS</b>			
Graduate	October 1969	December 5, 1969	March 15, 1970
Postdoctoral (Regular)	October 1969	December 8, 1969	March 15, 1970
Senior Postdoctoral— <i>Suspended</i>			
Science Faculty	August 1969	October 6, 1969	December 8, 1969
Senior Foreign Scientist	Open	March 31, 1970	Periodically
North Atlantic Treaty Organization (NATO)			
Postdoctoral	July 1969	October 3, 1969	November 24, 1969
Senior	Open	March 31, 1970	Periodically

NOTE: Because the dates above are subject to change, prospective applicants should consult specific program announcements for exact final dates.

## INFORMATION FOR INSTITUTIONS SUBMITTING PROPOSALS (NOT for Individuals Applying for Participation)

PROGRAMS	Program Announcement Dates <sup>1</sup>	Proposal Closing Dates	Grant Award Dates
<b>GRADUATE TRAINEESHIPS</b>	August 1969	October 17, 1969	February 15, 1970
<b>ADVANCED SCIENCE EDUCATION PROGRAMS</b>			
Advanced Science Seminars	February 1969	June 15, 1969	November 15, 1969
Special Projects in Graduate Education	Open	Open	Open
Public Understanding of Science	Open	Open	Open
<b>COLLEGE TEACHER PROGRAMS</b>			
Academic Year Institutes for College Teachers, 1970-71	March 1969	June 1, 1969	October 20, 1969
Short Courses and Summer Institutes for College Teachers, 1970	March 1969	June 1, 1969	October 20, 1969
Research Participation for College Teachers, 1970	March 1969	June 1, 1969	October 20, 1969
In-Service Seminars for College Teachers, 1970-71	March 1969	June 1, 1969	October 20, 1969
<b>UNDERGRADUATE EDUCATION PROGRAMS</b>			
Undergraduate Research Participation	May 1969	September 8, 1969	December 19, 1969
Instructional Scientific Equipment	October 1969	January 30, 1970	May 15, 1970
Science Curriculum Improvement Program	Open	Open	Open
Special Projects (Undergraduate)	Open	Open	Open
<b>COLLEGE SCIENCE IMPROVEMENT PROGRAMS</b>			
Individual Institutional Projects	Open	Open	Open
Interinstitutional Projects in 4-Year Colleges	Open	February 15, 1969 October 15, 1969	June 1, 1969 January 15, 1970
Cooperative Projects for 2-Year Colleges	Open	February 17, 1969 October 15, 1969	May 1, 1969 January 15, 1970
<b>PRE-COLLEGE EDUCATION PROGRAMS</b>			
Summer Institutes for Secondary School Teachers, 1970	March 1969	May 1, 1969 July 1, 1969	November 20, 1969
Summer Conferences for Secondary School Teachers, 1970	March 1969	October 1, 1969	November 25, 1969
Academic Year Institutes for Secondary School Teachers, 1970-71	March 1969	July 1, 1969	October 15, 1969
In-Service Institutes for Secondary School Teachers, 1970-71	September 1969	December 1, 1969 December 15, 1969	March 25, 1970
Research Participation for High School Teachers— <i>Suspended</i>			
Cooperative College-School Science	April 1969	August 11, 1969	December 9, 1969
Special Projects in Pre-College Science Education	Open	Open	Open
Course Content Improvement (Pre-College)	Open	Open	Open
Student Science Training Program (Pre-College)	April 1969	August 25, 1969	December 9, 1969
Supplementary Science Projects for Students	Open	Open	Open

<sup>1</sup> Date application materials are available; also opening date for receipt of applications or proposals.

# Federal Money for Education: Programs Administered by the U.S. Office of Education

Fiscal Year 1969

TYPE OF ASSISTANCE	AUTHORIZATION	PURPOSE	PROGRAM LEVEL	WHO MAY APPLY	WHERE TO APPLY
<b>GROUP I: For construction</b>					
1 Public schools	School Aid to Federally Impacted and Major Disaster Areas (P.L. 815)	Aid school districts in providing minimum school facilities in federally impacted and disaster areas	\$ 74,050,000	Local school districts	OE's Division of School Assistance in Federally Affected Areas
2 Educational television	P.L. 87-447, amending Communications Act of 1934	Aid in the acquisition and installation of transmitting and production equipment for ETV broadcasting	4,000,000	Nonprofit agencies, public colleges, State television agencies, education agencies	Assistant to the Assistant Secretary (Educational Television), Dept. of HEW, Wash., D.C. 20201
3 Community colleges, technical institutes	Higher Education Facilities Act—title I	Construct or improve academic facilities	83,000,000	Public community colleges and technical institutes	State commissions
4 Other undergraduate facilities	Higher Education Facilities Act—title I	Construct or improve undergraduate academic facilities	133,000,000	Colleges and universities	State commissions
5 Graduate facilities	Higher Education Facilities Act—title II	Construct or improve graduate academic facilities	25,577,000	Public and private academic institutions, grad. center boards	OE's Division of Graduate Programs
6 Undergraduate and graduate facilities	Higher Education Facilities Act—title III	Loans to construct or improve higher education facilities	150,000,000	Public and private nonprofit institutions, cooperative centers, boards of higher education	OE-HEW Regional Offices
7 Vocational facilities	Appalachian Regional Development Act of 1965	Construct vocational education facilities in the Appalachian region	(14,000,000) <sup>1</sup>	State education agencies in Appalachian region	OE's Division of Vocational and Technical Education
8 Vocational schools	Vocational Education Amendments of 1968	Construct or improve area vocational education school facilities	(See II-7)	Public secondary and postsecondary schools providing education in five or more fields	State boards of vocational education (information from OE's Division of Voc.-Tech. Education)
9 Public libraries	Library Services and Construction Act—title II	Aid construction of public libraries	24,099,000	State library administrative agencies	OE's Division of Library Services and Educational Facilities
10 Facilities for educational research	Cooperative Research Act (amended by ESEA—title IV)	Construct and equip national and regional research facilities	(29,581,000) <sup>1</sup>	Educational laboratories and research development centers	OE's Division of Educational Laboratories
<b>GROUP II: For programs, instruction, and administration</b>					
1 School maintenance and operation	School Aid to Federally Impacted and Major Disaster Areas (P.L. 874)	Aid school districts on which Federal activities or major disasters have placed a financial burden	505,900,000	Local school districts	OE's Division of School Assistance in Federally Affected Areas
2 Strengthening instruction in critical subjects in public schools	National Defense Education Act—title III	Strengthen instruction in 10 critically important subjects	75,740,000	Local school districts	State education agencies
3 Strengthening instruction in nonpublic schools	National Defense Education Act—title III	Loans to private schools to improve instruction in critical subjects	1,000,000	Nonprofit private elementary and secondary schools	OE's Division of State Agency Cooperation
4 Programs for the handicapped	Elementary and Secondary Ed. Act—title VI	Strengthen educational and related services for handicapped children	29,250,000	State education agencies	OE's Bur. of Ed'n. for Handicapped, Division of Educational Services
5 School library resources and instructional materials	Elementary and Secondary Ed. Act—title II	Support provision of school library resources, textbooks, and other instructional materials	50,000,000	Local education agencies	State education agencies
6 Supplementary centers	Elementary and Secondary Ed. Act—title III	Support supplementary educational centers and services	164,876,000 <sup>3</sup>	Local education agencies	State education agency or OE's Division of Plans and Supplementary Centers
7 Vocational programs	Vocational Education Amendments of 1968	Maintain, extend, and improve vocational education programs; develop programs in new occupations	255,377,455 <sup>5</sup>	Public schools	State boards of vocational education (information from OE's Division of Voc.-Tech. Education)
8 Media services and captioned film loan program	Media Services and Captioned Films	Provide cultural and educational services to the handicapped through films and other media	4,750,000	Groups of handicapped persons, nonhandicapped groups for training	OE's Bur. of Ed'n. for Handicapped, Division of Educational Services
9 Desegregation assistance	Civil Rights Act of 1964	Aid school boards in hiring advisors and training employees on problems incident to school desegregation	3,319,000	School boards and other agencies responsible for public school operation	OE's Division of Equal Educational Opportunities
10 Guidance, counseling, and testing in public schools	National Defense Education Act—title V-A	Assist in establishing and maintaining guidance, counseling, and testing programs	17,000,000	Public elementary and secondary schools, junior colleges, technical institutes	State education agencies
11 Testing in nonpublic schools	National Defense Education Act—title V-A	Provide for aptitude-achievement testing of private school students	(See II-12)	Testing agencies	State education agencies or OE's Div. of State Agency Cooperation
12 Overseas opportunities for language training and area studies	Mutual Educational and Cultural Exchange Act	Promote development of international studies through grants to institutions for support of overseas projects by groups and individuals engaged in language and area studies or research	3,000,000 <sup>5</sup> (Allocated for II-12, 13, 26, and 39)	Colleges, universities, consortiums, local and State education agencies, nonprofit education organizations, institutions with graduate programs in language, area, or international studies	Individuals apply to participating institutions (information from OE's Institute of International Studies)
13 Consultant services of foreign curriculum specialists	Mutual Educational and Cultural Exchange Act	Support visits by foreign consultants to improve and develop resources for foreign language and area studies	(See II-12)	Colleges, universities, consortiums, local and State education agencies, nonprofit education organizations	OE's Institute of International Studies
14 Educational personnel training programs	Education Professions Development Act—Part D	Improve qualifications of elementary and secondary education personnel	45,000,000	Colleges and universities, State and local education agencies	OE's Bureau of Educational Personnel Development



TYPE OF ASSISTANCE	AUTHORIZATION	PURPOSE	PROGRAM LEVEL	WHO MAY APPLY	WHERE TO APPLY
15 Teacher institutes	Civil Rights Act of 1964	Improve ability of school personnel to deal with problems incident to school desegregation	5,931,000 <sup>5</sup>	Colleges and universities	OE's Division of Equal Educational Opportunities
16 Teacher training (handicapped)	Mental Retardation Facilities Act and others	Prepare and inform teachers and others who work in education of handicapped	30,250,000 <sup>5</sup>	State education agencies, colleges and universities	OE's Bur. of Ed'n. for Handicapped, Division of Training Programs
17 Teacher training (vocational)	Vocational Education Amendments of 1968	Improve qualifications of teachers, supervisors, and directors of vocational education programs	(See II-7) <sup>5</sup>	Local school districts	State boards of vocational education (information from OE's Division of Voc.-Tech. Education)
18 Follow Through	Economic Opportunity Act of 1964	Extend gains of deprived children who participated in Head Start or similar preschool experiences	30,000,000	Local educational agencies nominated by State agencies in accordance with OE and OEO criteria	Application by invitation only in FY 1969
19 Teacher Corps	Education Professions Development Act—Part B-1	Strengthen educational opportunity for disadvantaged children; encourage colleges and universities in teacher preparation programs by attracting and training teacher-interns	20,900,000	State and local education agencies, colleges and universities	OE's Bureau of Educational Personnel Development, Teacher Corps (information from participating school systems and institutions)
20 State plan to attract and qualify classroom personnel to meet critical shortages	Education Professions Development Act—Part B-2	Provide State grants to help local communities attract and qualify persons to meet immediate critical shortages of classroom personnel	15,000,000	State education agencies	OE's Bureau of Educational Personnel (local districts apply to State education agencies)
21 Education Personnel Fellowships	Education Professions Development Act—Part C	Improve the quality of education of experienced and prospective elementary and secondary personnel	35,000,000	Institutions of higher education offering graduate programs for elementary and secondary education personnel	OE's Bureau of Educational Personnel Development
22 Training programs	Education Professions Development Act—Part D	Train and retrain educational personnel and teacher aides to strengthen personnel development from preschool through postsecondary vocational school	45,000,000	Prospective and experienced education personnel	Participating institutions, local, State education agencies (information from OE's Bureau of Educational Personnel)
23 State administration of HEFA program	Higher Education Facilities Act of 1963	Help States administer programs under HEFA—title I and HEA—title VI-A	3,000,000	State commissions that administer program	OE's Division of College Facilities
24 Facilities comprehensive planning	Higher Education Facilities Act—title I	Help States plan higher education construction programs	4,000,000	State commissions that administer program	OE's Division of College Facilities
25 Endowment of colleges of agriculture and mechanic arts	Bankhead-Jones and Morrill-Nelson Acts	Support instruction in agriculture and mechanic arts in the land-grant colleges	14,550,000	The 69 land-grant colleges	OE's Division of College Facilities
26 Foreign studies extension (summer seminars abroad for teachers and students or curriculum development teams)	Mutual Educational and Cultural Exchange Act	Improve institutional programs in language area studies by supporting group projects abroad	(See II-12) <sup>5</sup>	Colleges and universities, State education agencies, nonprofit educational organizations	OE's Institute of International Studies
27 Acquisition of undergraduate equipment	Higher Education Act of 1965—title VI-A	Improve instruction in selected subject areas	14,500,000	Colleges and universities	State commissions
28 Institutes, short-term training programs, and special projects	Education Professions Development Act of 1967—part E	Train teachers, administrators, and specialists serving or preparing to serve in higher education	6,900,000	Colleges and universities	OE's Division of College Support
29 Strengthening community service programs	Higher Education Act of 1965—title I	Strengthen higher education capabilities in helping communities solve their problems	9,500,000	Colleges and universities	State agencies or institutions designated to administer State plans
30 Strengthening developing institutions	Higher Education Act of 1965—title III	Provide partial support for cooperative arrangements between developing and established institutions	30,000,000	Accredited colleges and universities in existence at least five years	OE's Division of College Support
31 National Teaching Fellowships	Higher Education Act of 1965—title III	Augment the teaching resources of developing institutions	(See II-30) <sup>5</sup>	Developing institutions nominating prospective fellows from established institutions	OE's Division of College Support
32 College library resources	Higher Education Act of 1965—title II-A	Strengthen library resources of colleges and universities	25,000,000	Institutions of higher education and combinations thereof	OE's Division of Library Services and Educational Facilities
33 Student loans — matching funds	National Defense Education Act—title II	Loans to colleges, universities, and vocational schools that cannot meet program's matching obligations	2,000,000	Accredited educational institutions (including business schools and technical institutes)	OE's Division of Student Financial Aid
34 Cuban student loans	Migration and Refugee Assistance Act	Provide a loan fund to aid Cuban refugee students	(3,900,000) <sup>1</sup>	Colleges and universities	OE's Division of Student Financial Aid
35 College work-study	Higher Education Act of 1965—title IV-C	Provide part-time employment for postsecondary students	146,050,000	Colleges, universities, area vocational schools, proprietary schools	OE's Division of Student Financial Aid
36 Higher educational guarantee reserve funds	Higher Education Act of 1965—title IV-B	Provide adequate loan reserves for higher and vocational educational student loans	(4,700,000) <sup>1</sup>	State or nonprofit private guarantee agencies	OE's Division of Student Financial Aid
37 Talent Search	Higher Education Act of 1965—title IV-A	Assist in identifying and encouraging promising students to complete high school and enter college	4,000,000	Institutes of higher education, State and local education agencies, public and nonprofit organizations	OE's Division of Student Financial Aid
38 Educational opportunity grants	Higher Education Act of 1965—title IV-A	Assist students of exceptional financial need to go to college	133,786,000	Institutions of higher education	OE's Division of Student Financial Aid
39 Faculty research/study abroad	Mutual Educational and Cultural Exchange Act	Enable U.S. institutions to support overseas research and study by individual faculty members or social studies supervisors; to improve curriculum or teacher competence in foreign language and area studies	(See II-12) <sup>5</sup>	Graduate and undergraduate institutions, secondary school systems, nonprofit educational organizations	OE's Institute of International Studies



TYPE OF ASSISTANCE	AUTHORIZATION	PURPOSE	PROGRAM LEVEL	WHO MAY APPLY	WHERE TO APPLY
40 Strengthening State education agencies	Elementary and Secondary Education Act—title V	Improve leadership resources of State education agencies	29,750,000	State education agencies and combinations thereof	OE's Division of State Agency Cooperation
41 State administration	National Defense Education Act—title III	Strengthen administration in State education agencies	2,000,000	State education agencies	OE's Division of Plans and Supplementary Centers
42 Public library services	Library Services and Construction Act—title I	Extend and improve public library services	35,000,000	State library administrative agencies	OE's Division of Library Services and Educational Facilities
43 Inter-library cooperation	Library Services and Construction Act—title III	Planning for establishment of co-operative networks of libraries	2,281,000	State library administrative agencies	OE's Division of Library Services and Educational Facilities
44 State institutional library services	Library Services and Construction Act—title IV-A	Planning for improved institutional library services	2,094,000	State library administrative agencies	OE's Division of Library Services and Educational Facilities
45 Library services to physically handicapped	Library Services and Construction Act—title IV-B	Planning for improved library services to physically handicapped	1,334,000	State library administrative agencies	OE's Division of Library Services and Educational Facilities
46 Civil defense education	Federal Civil Defense Act of 1950	Provide information on civil defense procedures to the public	3,000,000 <sup>4</sup>	Chief State school officers or State agencies	OE's Division of Adult Education Programs
47 Adult basic education	Adult Education Act of 1966	Provide literacy programs for adults	45,000,000	State education agencies	OE's Division of Adult Education Programs
48 Occupational training and retraining	Manpower Development and Training Act of 1962	Provide training programs to equip persons for work in needed employment fields	128,000,000	Local school authorities (public, private nonprofit)	State vocational education agency (information from OE's Division of Manpower Development and Training)
49 Dropout prevention	Elementary and Secondary Education Act—title VIII	Develop and demonstrate educational practices which show promise of reducing the number of children not completing school	5,000,000	Local school districts in low income areas and with high percentages of dropouts	State education agency and OE's Division of Plans and Supplementary Centers
50 Researcher training	Cooperative Research Act (amended by ESEA—title IV)	Develop and strengthen programs for training educational researchers	(See III-31) <sup>5</sup>	State education agencies, institutions, and organizations	OE's Division of Higher Education Research, Research Training Branch
51 NDEA language and area centers	National Defense Education Act—title VI	Support language and area centers at U.S. institutions of higher education	12,700,000	College, universities, consortiums of institutions of higher education	OE's Institute of International Studies
52 Preschool programs for handicapped children	Handicapped Children's Early Education Assistance Act	Develop model preschool and early education programs for handicapped children	1,000,000	Public agencies and private nonprofit agencies	OAC/Bureau of Education for Handicapped
53 Regional resource centers for improvement of education of handicapped children	Education for the Handicapped Act—title VI-B	Develop centers for educational diagnosis of handicapped children	500,000	Institutions of higher education, State and local education agencies, or combination within particular regions	OE's Bureau of Education for Handicapped, Division of Research
54 Deaf-blind centers	Education for the Handicapped Act—title VI-C	To develop centers for children and parents	1,000,000	State education agencies, universities, medical centers, public or nonprofit agencies	OE's Bureau of Education for Handicapped, Division of Educational Services
55 Information and recruitment grants	P.L. 90-247 (amendments to ESEA—title VI)	Improve recruiting of educational personnel and dissemination of information on educational opportunities for handicapped	250,000 <sup>5</sup>	Public or nonprofit agencies, organizations, private agencies	OAC/Bureau of Education for Handicapped
56 Bilingual education	Elementary and Secondary Education Act—title VII	Develop and operate new programs to aid children aged 3-18 who have limited English-speaking ability and come from another language environment	7,500,000	Local education agencies or institutions of higher education applying jointly with local education agencies	State education agencies and OE's Division of Plans and Supplementary Centers
57 Librarian training	Higher Education Act of 1965—title II-B	Increase opportunities for training in librarianship	8,250,000 <sup>5</sup>	Colleges and universities	OE's Division of Library Services and Educational Facilities
58 Program for disadvantaged children	Elementary and Secondary Ed. Act—title I (P.L. 89-10)	To meet special educational needs of educationally deprived children	1,078,000,000	Local school districts	State education agencies
59 Program for special education of migratory children	Elementary and Secondary Ed. Act—title I (P.L. 89-10, amended by P.L. 89-750)	To improve the education of children of migratory agricultural workers	45,000,000	Local school districts	State education agencies
60 Program for children in local and State operated institutions for the neglected and delinquent	Elementary and Secondary Ed. Act—title I (P.L. 89-10, amended by P.L. 89-750)	Improve the education of delinquent and neglected children in institutions	27,000,000	State parent agencies, local school districts	State education agencies
61 Programs for the handicapped in State supported schools	Elementary and Secondary Ed. Act—title I (P.L. 89-313, amended)	Programs for children in State operated or supported schools for the handicapped	29,700,000 <sup>3</sup>	State education agencies	OE's Bur. of Ed'n. for Handicapped, Division of Educational Services
62 Program for Indian children	Elementary and Secondary Ed. Act—title I (P.L. 89-10, amended by P.L. 89-750)	To provide additional educational assistance to Indian children in federally operated schools	9,000,000	Bureau of Indian Affairs schools	Bureau of Indian Affairs, Department of Interior

#### GROUP III: For teacher and other professional training and student assistance

1 Physical education and recreation for the handicapped	P.L. 90-170 (Mental Retardation Amendments of 1967)	Training professionals of physical education and recreation personnel for the handicapped	300,000 <sup>5</sup>	Public and other nonprofit institutions of higher education	OE's Bureau of Education for Handicapped, Division of Training Programs
2 Desegregation training grants	Civil Rights Act of 1964	Improve ability of school personnel to deal with desegregation problems	(See II-9) <sup>5</sup>	Teachers and other personnel of public schools	Participating institutions (information from OE's Division of Equal Educational Opportunities)
3 Teacher Corps	Education Professions Development Act—part B-1	Strengthen education of disadvantaged children, encourage colleges and universities in teacher preparation programs by attracting and training teacher-interns	20,900,000	State and local education agencies, colleges and universities	OE's Bureau of Educational Personnel Development, Teacher Corps

TYPE OF ASSISTANCE	AUTHORIZATION	PURPOSE	PROGRAM LEVEL	WHO MAY APPLY	WHERE TO APPLY
4 State plan to attract and qualify classroom personnel to meet critical shortages	Education Professions Development Act part B-2	Provide State grants to help local communities attract and qualify persons to meet immediate critical shortages of classroom personnel	15,000,000	State education agencies	OE's Bureau of Educational Personnel Development (local districts apply to State education agencies)
5 Education Personnel Fellowships	Education Professions Development Act part C	Improve the quality of education of experienced and prospective elementary and secondary personnel	35,000,000	Prospective and experienced educational personnel	Participating institutions, local and State education agencies (information from OE's Bureau of Educational Personnel Development)
6 Educational personnel training programs	Education Professions Development Act part D	Train and retrain educational personnel and teacher aides to strengthen personnel development from preschool through postsecondary vocational school	45,000,000	Prospective and experienced education personnel	Participating institutions, local and State education agencies (information from OE's Bureau of Educational Personnel Development)
7 Faculty research/study abroad	Mutual Educational and Cultural Exchange Act	(See II-41)	(See II-12) <sup>5</sup>	(See II-40)	(See II-40)
8 Leadership and vocational training grants	Government and Relief in Occupied Areas	Provide opportunities for Ryukyuan to observe and study in U.S. to improve education, economy	170,000	Ryukyuan nationals selected by their government	Ryukyuan Island government in cooperation with Higher Commissioner (information from OE's Institute of International Studies)
9 Fellowships for Ph.D. dissertation research abroad in modern foreign languages and area subjects (excludes English, French, German, Italian, Peninsular Spanish)	Mutual Educational and Cultural Exchange Act	Enable U.S. institutions to sponsor study abroad by advanced graduate students with a teaching goal	(See II-12) <sup>5</sup>	Colleges and universities with graduate programs in language, area, or international studies	OE's Institute of International Studies
10 Foreign teacher development	Mutual Educational and Cultural Exchange Act	Provide opportunity for foreign educators to observe U.S. methods, curriculum, organization (elementary and secondary)	900,000 <sup>5</sup>	Foreign educators (administrators, teacher trainers, education ministry officials)	U.S. embassies, educational commissions, foundations abroad (information from OE's Institute of International Studies)
11 Fulbright-Hays teacher exchange	Mutual Educational and Cultural Exchange Act	Promote international understanding by exchange of teachers between U.S. and foreign nations	16,050 <sup>2</sup>	Elementary and secondary teachers, college instructors, and assistant professors	OE's Institute of International Studies
12 Media services and captioned films; loan program; training grants	Media Services and Captioned Films	Improve quality of instruction available to deaf persons	(See II-8) <sup>5</sup>	Persons who will use captioned film equipment	OE's Bureau of Education for Handicapped, Division of Educational Services
13 Graduate fellowships	National Defense Education Act - title IV	Increase the number of well-qualified college teachers	70,000,000 <sup>5</sup>	Prospective college teachers working toward doctoral degrees	Participating institutions (information from OE's Division of Graduate Programs)
14 College work-study	Higher Education Act of 1965 title IV	Provide part-time employment for postsecondary students	(See II-34)	Postsecondary students	Participating institutions (information from OE's Division of Student Financial Aid)
15 Foreign language fellowships (excludes English, French, German, Italian, Peninsular Spanish)	National Defense Education Act title VI	Assist in the training of teachers and other specialists in modern foreign languages and area studies	(See II-51) <sup>5</sup>	(See III-18, 20, 21, 24; IV-5)	Individuals apply to participating institutions (information from OE's Institute of International Studies)
16 Student loans	National Defense Education Act - title II	Provide for low-interest loans to college students	190,000,000	College students	Participating institutions (information from OE's Division of Student Financial Aid)
17 Educational opportunity grants	Higher Education Act of 1965 - title IV-A	Assist students of exceptional financial need to go to college	(See II-37)	College students of exceptional financial need	Participating institutions (information from OE's Division of Student Financial Aid)
18 Modern foreign language graduate fellowships for intensive summer language study and/or academic year	National Defense Education Act - title VI	Enable U.S. institutions to assist graduate students training to be teachers or other specialists in language-area studies	(See II-51) <sup>5</sup>	Colleges and universities with language-area studies programs or summer programs of intensive study	OE's Institute of International Studies
19 National Teaching Fellowships	Higher Education Act of 1965 - title III	Augment the teaching resources of developing institutions	(See II-31) <sup>5</sup>	Highly qualified graduate students or junior faculty members from established institutions	Participating institutions (information from OE's Division of College Support)
20 Modern foreign language undergraduate stipends (summer only)	National Defense Education Act - title VI	Enable institutions to assist undergraduates' intensive study of a non-Western language (summer only)	(See II-51)	NDEA language and area centers or institutions with intensive summer programs of language study	OE's Institute of International Studies
21 Faculty development grants for academic year and summer in foreign language and area studies	National Defense Education Act - title VI	Strengthen and improve teaching of non-Western languages and related area studies	(See II-51) <sup>5</sup>	Colleges and universities	OE's Institute of International Studies
22 Interest benefits for higher education loans	Higher Education Act of 1965 - title IV-B	Provide interest benefits for student loans through commercial lenders	61,235,000	Students in eligible institutions of higher and vocational education	Participating lenders (information from OE's Division of Student Financial Aid)
23 Faculty development grants for summer seminars in language and area studies	National Defense Education Act - title VI	Enable U.S. institutions to develop new programs of foreign language and related area studies	(See II-51) <sup>5</sup>	Colleges and universities	OE's Institute of International Studies
24 Cuban student loans	Migration and Refugee Assistance Act	Aid needy Cuban refugee college students to finance their education	(See II-33)	Cubans who became refugees after January 1, 1959	Participating institutions (information from OE's Division of Student Financial Aid)
25 Librarian fellowships and traineeships	Higher Education Act of 1965 - title II-B	Increase opportunities throughout the Nation for training in librarianship	(See II-57) <sup>5</sup>	Fellows and others undergoing training in librarianship and related fields	Participating institutions (information from OE's Division of Library Services and Educational Facilities)
26 Technical assistance, training grants	Act for International Development of 1961	Provide specialist training to foreign educators and strengthen education and economy in developing nations	1,500,000 <sup>5</sup>	Foreign nationals from countries with which U.S. has bilateral technical assistance agreements	AID Mission with the concurrence of the local education ministry (information from OE's Institute of International Studies)

TYPE OF ASSISTANCE	AUTHORIZATION	PURPOSE	PROGRAM LEVEL	WHO MAY APPLY	WHERE TO APPLY
27 Occupational training and retraining	Manpower Development and Training Act	Train unemployed and underemployed persons in all sections of the Nation	(See II-48)	Persons referred by State employment services	Participating institutions (information from OE's Division of Manpower Development and Training)
28 Fellowships for higher education personnel	Education Professions Development Act—part E	Training persons to serve as teachers, administrators, or educational specialists in higher education	6,900,000	Institutions of higher education with graduate programs	OE's Division of Graduate Programs
29 Vocational teacher training grants	Vocational Education Amendments of 1968	Improve qualifications of vocational education teachers	(See II-7) <sup>5</sup>	Teachers of vocational education subjects	Participating institutions (information from State boards of vocational education or OE's Div. of Voc. Tech. Education)
30 Adult basic education teacher training grants	Adult Education Act of 1966	Improve qualifications of teachers of adult basic education courses	(See II-47) <sup>5</sup>	Teachers and teacher trainers of adult basic education courses	Participating institutions (information from OE's Div. of Adult Education Programs)
31 Researcher training grants	Cooperative Research Act (amended by ESEA—title IV)	Improve qualifications of educational researchers	6,750,000 <sup>5</sup>	Present and prospective researchers in education	Participating institutions (information from OE's Division of Higher Education Research)

#### GROUP IV: For research

1 Educational research (research, surveys, and evaluations)	Cooperative Research Act (amended by ESEA—title IV)	Support research on the improvement of education at all levels and in all subject areas	15,167,000	Colleges, universities, State education agencies, private or public groups, or individuals	Research Analysis and Allocations Staff, Bureau of Research
2 Educational research (demonstrations and development)	Cooperative Research Act (amended by ESEA—title IV)	Support development and demonstration of educational materials, processes, and organizational arrangements at all levels	8,500,000 <sup>1</sup>	(Same as IV-1)	Research Analysis and Allocations Staff, Bureau of Research
3 Education Resources Information Center (dissemination of research)	Cooperative Research Act (amended by ESEA—title IV)	Provide for dissemination of research findings to the educational community	3,100,000	(Same as IV-1)	OE's Division of Information Technology and Dissemination
4 Educational media research and demonstration	Cooperative Research Act (amended by ESEA—title IV)	Support research on educational uses of television, radio, motion pictures, and other media	4,200,000	(Same as IV-1)	OE's Division of Higher Education Research
5 Foreign language and area research	National Defense Education Act—title VI	Support research on improved instruction in modern foreign languages and materials development and area studies	2,750,000	Colleges and universities, public school systems, professional organizations, individuals	OE's Institute of International Studies
6 Library research and demonstration	Higher Education Act of 1965—title II-B	Support research and demonstrations on libraries and library personnel training	3,000,000 <sup>5</sup>	Colleges, universities, agencies, and organizations	OE's Division of Information Technology and Dissemination
7 Special centers for research and development	Cooperative Research Act (amended by ESEA—title IV)	Conduct research on the major problems of education	10,800,000	Colleges, universities, agencies, and organizations	OE's Division of Educational Laboratories
8 Educational laboratories	Cooperative Research Act (amended by ESEA—title IV)	Provide for development and testing of educational innovations until ready for use in classroom	23,600,000	Colleges, universities, agencies, and organizations	OE's Division of Educational Laboratories
9 Vocational research	Vocational Education Act of 1963—section 4-C	Support research, training, and pilot programs for special vocational needs	11,550,000	State and local education agencies, colleges and universities, nonprofit organizations.	OE's Division of Comprehensive and Vocational Education Research
10 Handicapped research and demonstration	Mental Retardation Facilities . . . Act and others	Promote research and demonstration on education of the handicapped	12,800,000	State education agencies, local school districts, nonprofit private organizations, public groups	OE's Bureau of Education for Handicapped, Division of Research
11 Faculty research/study	Mutual Educational and Cultural Exchange Act	(See II-40)	(See II-12)	(See II-40)	OE's Institute of International Studies
12 Foreign studies extension	Mutual Educational and Cultural Exchange Act	(See II-26)	(See II-12)	(See II-26)	OE's Institute of International Studies
13 Graduate fellowships for Ph.D. dissertation research overseas in modern foreign languages and area studies	Mutual Educational and Cultural Exchange Act	(See III-3)	(See II-12)	(See III-3)	OE's Institute of International Studies
14 Physical education and recreation for the handicapped	P.L. 90-170 (Mental Retardation Amendments of 1967)	To do research in areas of physical education and recreation for handicapped children	300,000	State or local education agencies, public or nonprofit private educational or research agencies and organizations	OE's Bureau of Education for Handicapped, Division of Research
15 Media research (handicapped)	Captioned Films . . . and others	Promote better media services to handicapped persons	1,800,000	(See II-8)	OE's Bureau of Education for Handicapped, Division of Educational Services

1 Figures in parentheses indicate estimated amounts or money carried over from prior years, rather than fiscal year 1969 appropriations.

2 Does not include approximately \$500,000 in foreign currencies appropriated to Department of State and assigned to commissions and foundations abroad for international transportation and maintenance costs but not transferred to HEW, nor does it include supplementary dollar grants to Americans provided by the State Department.

3 At least 15 percent for handicapped.

4 For State contracts only.

5 Programs which include educational personnel training.

**Editor's Note:** This tabulation of U.S. Office of Education programs was prepared by USOE's *American Education* staff. Reprints, in a larger format, can be ordered at 20 cents a copy (25 percent discount on orders over 100) from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Specify OE-11015-69.

MAY 1  
DEADLINES

Guide Folder #71 - Summer Institute and Conferences for Secondary School Teachers of Science and Mathematics.

Guide Folder #110 - Research Career Development Awards - Public Health Service. Also September 1 deadline.

Guide Folder #113 - Traineeships for Short-Term Public Health Training. Also August 1, November 1, and February 1 deadlines.

Guide Folder #142 - Vocational Rehabilitation Training Grants and Traineeships.

FUTURE  
DEADLINES

Guide Folder #24 - Grant Research Program Under MDTA. Deadlines: July 1, October 1, April 1, January 1.

Guide Folder #141 - Special Rehabilitation Facility Grants (Social and Rehabilitation Service.)

Guide Folder #144 - Research Development Program (National Institute of Mental Health). Deadlines - August 1 (rev.), December 1, April 1.

HORSEFEATHERS

The U. S. Customs Court held that certain wedge-shaped wooden articles described on the invoices as "horsefeathers," and manufactured by sawing logs into boards, resawing the boards longitudinally, and then bevel cutting the resawn boards, are properly dutiable at the rate of 35 cents per thousand feet, board measure, under item 202.03, Tariff Schedules of the United States (TSUS), as spruce lumber. The merchandise involved in this case is employed as a backing on the side or the roof of a building in order to make the surface flat or level prior to the installation of resurfacing materials such as asphalt shingles or clapboard.

(From Federal Register 3/6/69)